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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,185	10/21/2003	Michio Tsujiura	MM4651	6790
7590 12/29/2004		EXAMINER		
Eugene Lieberstein, Esq.			BUDD, MARK OSBORNE	
Anderson Kill & Olick, P.C.			ART UNIT	PAPER NUMBER
1251 Avenue of the Americas			ART GIVE	THE ER NOMBER
New York, NY 10020			2834	

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/691,185	TSUJIURA, MICHIO					
Office Action Summary	Examiner	Art Unit	and a				
	Mark Budd	2834					
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with t	he correspondence add	lress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleved for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		be timely filed O) days will be considered timely. From the mailing date of this condoned (35 U.S.C. § 133).	nmunication.				
Status							
1) Responsive to communication(s) filed on	<u></u> •						
2a) This action is FINAL . 2b) ☐ This	is action is non-final.	,					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examin	ner.	·					
10)⊠ The drawing(s) filed on <u>21 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct		•	` '				
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Of	ffice Action or form PT0	D-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).					
1. Certified copies of the priority documen							
2. Certified copies of the priority documen							
3. Copies of the certified copies of the price	•	eived in this National S	Stage				
application from the International Burea * See the attached detailed Office action for a lis	` '//	enived					
and and analytica detailed Office action for a lis	s or the certified copies flot fec	Civou.					
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) LInterview Sumr Paper No(s)/Ma	mary (PTO-413) ail Date					
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	3) 5) Notice of Inform	mal Patent Application (PTO-	152)				
Paper No(s)/Mail Date <u>10-21-03</u> .	6)						

Application/Control Number: 10/691,185

Art Unit: 2834

Claims 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims are vague and indefinite. In claim 4, these is no antecedent basis for either a monomorph or bimorph in parent claim 3. Claim 5 is incomplete in calling for a piezoelectric element array (10) or (12) --- "without any further recitation of any piezoelectric structure. Due to the above, one cannot determine the metes and bounds of these claims.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jomura.

Note Jomura (figs. 3A-3G) shows a square piezoelectric element with electrodes within the outer edges of the element.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3 and 4 (as understood) rejected under 35 U.S.C. 103(a) as being unpatentable over Ng in view of Jomura.

Application/Control Number: 10/691,185 Page 3

Art Unit: 2834

Ng teaches a stack of piezoelectric elements (10, 12, 15, 23) with electrodes (e.g. 11, 22), output terminals (e.g. 18, 29, 30) and an insulating layer on the outside of the electrodes and between piezo bundles (25). Ng does not explicitly use square piezoelements with electrodes that do not extend to the outer edges of the piezoelements. However, Jomura teaches the square configuration using less than full coverage electrodes. Leaving the edges unelectroded prevents flash-over and possible short circuiting of the stack of piezo elements. Thus for at least this reason it would have been obvious to one of ordinary skill in the art to leave such a gap in Ng. Selection from among known piezoelectric element shapes would have been within the skill expected of the routineer based on application dictates, and therefore obvious to one o ordinary skill in the art.

Claims 5-7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Budd/ds

12/22/04